

PATENT  
ATTORNEY DOCKET NO.: 041993-5352

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Sung-Su JUNG et al.	)	
	)	
Application No.: 10/699,845	)	Group Art Unit: Unassigned
	)	
Filed: November 4, 2003	)	Examiner: Unassigned
	)	
For: DISPENSER FOR LIQUID CRYSTAL	)	
DISPLAY PANEL AND METHOD FOR	)	
DETECTING RESIDUAL QUANTITY	)	
OF DISPENSING MATERIAL USING	)	
THE SAME	)	

Commissioner for Patents  
U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir;

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO Form 1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicants do not believe that a fee is due for filing this paper.

Copies of the listed documents are attached.

The relevance of the non-English language documents can be understood from the drawings respectively therein and from the respectively attached abstracts.

Applicants request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached PTO Form 1449.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each of the listed documents are material or constitute "Prior Art." If it should be determined that the listed documents do not constitute "Prior Art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

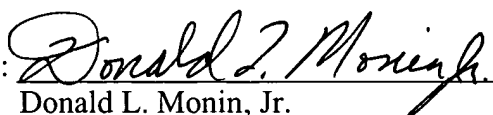
**EXCEPT** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§ 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).


Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

Dated: December 19, 2003

**CUSTOMER NO. 009629**  
**MORGAN, LEWIS & BOCKIUS LLP**  
1111 Pennsylvania Avenue, NW  
Washington, D.C. 20004  
Tel.: (202) 739-3000

By:   
Donald L. Monin, Jr.  
Reg. No.: 47,256

<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary) <b>PTO Form 1449</b>	Attorney Docket No. 041993-5352	Application No.: 10/699,845
	Applicants: Sung-Su JUNG et al. <span style="float: right;"><b>Sheet 1 of 10</b></span>	
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<b>U.S. PATENT DOCUMENTS</b>
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*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	3,978,580	09/07/1976	Leupp, et al.			09/27/1974
	4,094,058	06/13/1978	Yasutake, et al.			07/23/1976
	4,653,864	03/31/1987	Baron, et al.			02/26/1986
	4,691,995	09/08/1987	Yamazaki, et al.			07/15/1986
	4,775,225	10/04/1988	Tsuboyama, et al.			05/14/1986
	5,247,377	09/21/1993	Omeis, et al.			07/24/1989
	5,263,888	11/23/1993	Ishihara, et al.			02/11/1993
	5,379,139	01/03/1995	Sato, et al.			07/06/1992
	5,406,989	04/18/1995	Abe			10/12/1993
	5,499,128	03/12/1996	Hasegawa, et al.			03/15/1994
	5,507,323	04/16/1996	Abe			11/22/1994
	5,511,591	04/30/1996	Abe			04/10/1995
	5,539,545	07/23/1996	Shimizu, et al.			05/17/1994
	5,548,429	08/20/1996	Tsujita			06/14/1994
	5,642,214	06/24/1997	Ishii, et al.			07/05/1994
	5,680,189	10/21/1997	Shimizu, et al.			06/07/1995
	5,742,370	04/21/1998	Kim, et al.			02/26/1997

Examiner	Date Considered
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**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	5,757,451	05/26/1998	Miyazaki, et al.			09/09/1996
	5,852,484	12/22/1998	Inoue, et al.			05/27/1997
	5,854,664	12/29/1998	Inoue, et al.			09/25/1995
	5,861,932	01/19/1999	Inata, et al.			03/30/1998
	5,875,922	03/02/1999	Chastine, et al.			10/10/1997
	5,952,676	09/14/1999	Sato, et al.			06/06/1997
	5,956,112	09/21/1999	Fujimori, et al.			10/01/1996
	6,001,203	12/14/1999	Yamada, et al.			12/10/1997
	6,011,609	01/04/2000	Kato, et al.			10/02/1997
	6,016,178	01/18/2000	Kataoka, et al.			03/14/1997
	6,016,181	01/18/2000	Shimada			01/21/1997
	6,055,035	04/25/2000	von Gutfeld, et al.			05/11/1998
	6,163,357	12/19/2000	Nakamura			09/26/1997
	6,219,126	04/17/2001	Von Gutfeld			11/20/1998
	6,226,067	05/01/2001	Nishiguchi, et al.			09/30/1998
	6,236,445	05/22/2001	Foschaar, et al.			02/22/1996
	6,304,306	10/16/2001	Shiomi, et al.			04/20/1998
Examiner			Date Considered			
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<p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b></p> <div style="position: relative; height: 100px;"> </div> <p style="margin-top: 20px;">(Use several sheets if necessary)</p> <p style="text-align: center;"><b>PTO Form 1449</b></p>	Attorney Docket No. 041993-5352	Application No.: 10/699,845
	Applicants: Sung-Su JUNG et al. <span style="float: right;"><b>Sheet 3 of 10</b></span>	
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**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	6,304,311	10/16/2001	Egami, et al.			11/11/1999
	6,337,730	01/08/2002	Ozaki, et al.			06/01/1999
	6,414,733	07/02/2002	Ishikawa, et al.			02/07/2000
	2001/0021000	09/13/2001	Egami			02/01/2001

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Sub Class	<u>Translation</u> <b>YES    NO</b>	
		51-65656 ✓	06/07/1976	Japan			Abstract	
		57-38414 ✓	03/03/1982	Japan			Abstract	
		57-88428 ✓	06/02/1982	Japan			Abstract	
		58-27126	02/17/1983	Japan			Abstract	
		59-57221 ✓	04/02/1984	Japan			Abstract	
		59-195222	11/06/1984	Japan			Abstract	
		60-111221 ✓	06/17/1985	Japan			Abstract	
		60-164723 ✓	08/27/1985	Japan			Abstract	
		60-217343 ✓	10/30/1985	Japan			Abstract	
		61-7822 ✓	01/14/1986	Japan			Abstract	

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## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	
							YES	NO
		61-55625 ✓	03/20/1986	Japan			Abstract	
		62-89025 ✓	04/23/1987	Japan			Abstract	
		62-90622 ✓	04/25/1987	Japan			Abstract	
		62-205319 ✓	09/09/1987	Japan			Abstract	
		63-109413 ✓	05/14/1988	Japan			Abstract	
		63-110425 ✓	05/14/1988	Japan			Abstract	
		63-128315 ✓	05/31/1988	Japan			Abstract	
		63-311233 ✓	12/20/1988	Japan			Abstract	
		5-127179 ✓	05/25/1993	Japan			Abstract	
		5-154923 ✓	06/22/1993	Japan			Abstract	
		5-265011 ✓	10/15/1993	Japan			Abstract	
		5-281557 ✓	10/29/1993	Japan			Abstract	
		5-281562 ✓	10/29/1993	Japan			Abstract	
		6-148657 ✓	05/27/1994	Japan			Abstract	
		6-160871 ✓	06/07/1994	Japan			Abstract	
		6-235925 ✓	08/23/1994	Japan			Abstract	
		6-265915 ✓	09/22/1994	Japan			Abstract	
		6-313870 ✓	11/08/1994	Japan			Abstract	

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## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	<u>Translation</u>	
							YES	NO
		6-51256 ✓	02/25/1994	Japan			Abstract	
		7-84268 ✓	03/31/1995	Japan			Abstract	
		7-128674 ✓	05/19/1995	Japan			Abstract	
		7-181507 ✓	07/21/1995	Japan			Abstract	
		8-95066 ✓	04/12/1996	Japan			Abstract	
		8-101395 ✓	04/16/1996	Japan			Abstract	
		8-106101 ✓	04/23/1996	Japan			Abstract	
		8-171094 ✓	07/02/1996	Japan			Abstract	
		8-190099 ✓	07/23/1996	Japan			Abstract	
		8-240807 ✓	09/17/1996	Japan			Abstract	
		9-5762	01/10/1997	Japan			Abstract	
		9-26578 ✓	01/28/1997	Japan			Abstract	
		9-61829 ✓	03/07/1997	Japan			Abstract	
		9-73075 ✓	03/18/1997	Japan			Abstract	
		9-73096 ✓	03/18/1997	Japan			Abstract	
		9-127528 ✓	05/16/1997	Japan			Abstract	

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## FOREIGN PATENT DOCUMENTS

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	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
	9-230357 ✓	09/05/1997	Japan			Abstract	
	9-281511 ✓	10/31/1997	Japan			Abstract	
	9-311340 ✓	12/02/1997	Japan			Abstract	
	10-123537 ✓	05/15/1998	Japan			Abstract	
	10-123538 ✓	05/15/1998	Japan			Abstract	
	10-142616 ✓	05/29/1998	Japan			Abstract	
	10-177178 ✓	06/30/1998	Japan			Abstract	
	10-221700 ✓	08/21/1998	Japan			Abstract	
	10-282512 ✓	10/23/1998	Japan			Abstract	
	10-333157 ✓	12/18/1998	Japan			Abstract	
	10-333159 ✓	12/18/1998	Japan			Abstract	
	11-14953 ✓	01/22/1999	Japan			Abstract	
	11-38424 ✓	02/12/1999	Japan			Abstract	
	11-64811 ✓	03/05/1999	Japan			Abstract	
	11-109388 ✓	04/23/1999	Japan			Abstract	
	11-133438 ✓	05/21/1999	Japan			Abstract	
	11-142864 ✓	05/28/1999	Japan			Abstract	

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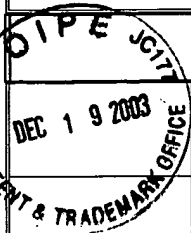
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## FOREIGN PATENT DOCUMENTS



	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
	11-174477 ✓	07/02/1999	Japan			Abstract	
	11-212045 ✓	08/06/1999	Japan			Abstract	
	11-248930 ✓	09/17/1999	Japan			Abstract	
	11-326922 ✓	11/26/1999	Japan			Abstract	
	11-344714	12/14/1999	Japan			Abstract	
	2000-2879	01/07/2000	Japan			Abstract	
	2000-56311	02/25/2000	Japan			Abstract	
	2000-66165	03/03/2000	Japan			Abstract	
	2000-137235	05/16/2000	Japan			Abstract	
	2000-147528	05/26/2000	Japan			Abstract	
	2000-193988	07/14/2000	Japan			Abstract	
	2000-241824	09/08/2000	Japan			Abstract	
	2000-284295	10/13/2000	Japan			Abstract	
	2000-29035 ✓	01/28/2000	Japan			Abstract	
	2000-292799	10/20/2000	Japan			Abstract	
	2000-310759	11/07/2000	Japan			Abstract	
	2000-310784 ✓	11/07/2000	Japan			Abstract	

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**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
	2000-338501	12/08/2000	Japan			Abstract	
	2001-5401	01/12/2001	Japan			Abstract	
	2001-5405	01/12/2001	Japan			Abstract	
	2001-13506	01/19/2001	Japan			Abstract	
	2001-33793	02/09/2001	Japan			Abstract	
	2001-42341	02/16/2001	Japan			Abstract	
	2001-51284	02/23/2001	Japan			Abstract	
	2001-66615	03/16/2001	Japan			Abstract	
	2001-91727	04/06/2001	Japan			Abstract	
	2001-117105 V	04/27/2001	Japan			Abstract	
	2001-117109	04/27/2001	Japan			Abstract	
	2001-133745	05/18/2001	Japan			Abstract	
	2001-133794 V	05/18/2001	Japan			Abstract	
	2001-133799	05/18/2001	Japan			Abstract	
	2001-142074	05/25/2001	Japan			Abstract	
	2001-147437	05/29/2001	Japan			Abstract	
	2001-154211	06/08/2001	Japan			Abstract	

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**FOREIGN PATENT DOCUMENTS**



Document Number	Date	Country	Class	Sub Class	Translation	
					YES	NO
2001-166272	06/22/2001	Japan			Abstract	
2001-166310	06/22/2001	Japan			Abstract	
2001-183683	07/06/2001	Japan			Abstract	
2001-201750	07/27/2001	Japan			Abstract	
2001-209052	08/03/2001	Japan			Abstract	
2001-209060	08/03/2001	Japan			Abstract	
2001-215459	08/10/2001	Japan			Abstract	
2001-222017	08/17/2001	Japan			Abstract	
2001-235758	08/31/2001	Japan			Abstract	
2001-255542	09/21/2001	Japan			Abstract	
2001-264782 ✓	09/26/2001	Japan			Abstract	
2001-272640	10/05/2001	Japan			Abstract	
2001-281675	10/10/2001	Japan			Abstract	
2001-281678	10/10/2001	Japan			Abstract	
2001-282126	10/12/2001	Japan			Abstract	
2001-305563	10/13/2001	Japan			Abstract	
2001-330837	11/30/2001	Japan			Abstract	

Examiner	Date Considered
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		Document Number	Date	Country	Class	Sub Class	Translation	
							YES	NO
	✓	2001-330840	11/30/2001	Japan			Abstract	
	✓	2001-356353	12/26/2001	Japan			Abstract	
	✓	2001-356354	12/26/2001	Japan			Abstract	
	✓	2002-14360	01/18/2002	Japan			Abstract	
	✓	2002-23176	01/23/2002	Japan			Abstract	
	✓	2002-49045	02/15/2002	Japan			Abstract	
	✓	2002-82340	03/22/2002	Japan			Abstract	
	✓	2002-90759	03/27/2002	Japan			Abstract	
	✓	2002-90760	03/27/2002	Japan			Abstract	
	✓	2002-107740	04/10/2002	Japan			Abstract	
	✓	2002-122872	04/26/2002	Japan			Abstract	
	✓	2002-122873	04/26/2002	Japan			Abstract	
		2002-139734	05/17/2002	Japan			Abstract	
		2002-202512	07/19/2002	Japan			Abstract	
		2002-202514	07/19/2002	Japan			Abstract	
		2002-214626	07/31/2002	Japan			Abstract	
		2000-0035302	06/26/2000	Korea			Abstract	
		1 003 066	05/24/2000	Europe				

Examiner

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